

FRACTIONAL SPIRAL FLUTE SEMI-BOTTOMING TAPS

Right Hand Hi-Helix Flutes - Ground Thread - High Speed Steel



- Semi-bottoming style can be used for plug or bottoming applications.
- Helical flutes provides a shear cutting facilitating evacuation of chips from the hole.



Type 37-AGN - 52°
Titanium Nitride



Type 37 - 52°
Bright Finish

30° Helix Angle - Used where chip disposal is a problem.

- Spiral flute design effectively draws chips out of the hole.

- Recommended when tapping blind or through holes in a variety of materials.

52° Helix Angle - Can be used for plug or bottoming applications.

- Allows for threading close to bottom or blind holes.

- Recommended for tapping deep holes in copper, brass, aluminum and other soft ductile materials

Type 36-ACN 30°, 37-ACN 52° - Titanium Carbon Nitride

Titanium Carbon Nitride - coating raises cutting surface hardness greatly increasing resistance to wear.

Type 36-AGN 30°, 37-AGN 52° - Titanium Nitride

Titanium Nitride - coating adds lubricity and hardness, enhancing chip flow, finish hole quality and drill life.

Type 36 30°, Type 37 52° - Bright Finish

Bright Finish - Recommended in aluminum, zinc, cooper, wood, refrigeration die casting, auto hardware and epoxy based plastics.

FRACTIONAL SPIRAL FLUTE SEMI-BOTTOMING TAPS - 30° SPIRAL

Type 36-ACN Titanium Carbon Nitride Part#	Type 36-AGN Titanium Nitride Part#	Type 36 Bright Part#	Spiral	Size	# of Flutes	H Limit	Qty. per/pack each
49804	49803	49802	30°	3-48	2	H2	1
49814	49813	49812	30°	3-56	2	H2	1
49824	49823	49822	30°	4-40	2	H2	1
49834	49833	49832	30°	4-48	2	H2	1
49844	49843	49842	30°	5-40	2	H2	1
49854	49853	49852	30°	5-44	2	H2	1
49864	49863	49862	30°	6-32	2	H3	1
49874	49873	49872	30°	6-40	2	H2	1
49884	49883	49882	30°	8-32	3	H3	1
49894	49893	49892	30°	8-36	3	H2	1
49904	49903	49902	30°	10-24	3	H3	1
49914	49913	49912	30°	10-32	3	H3	1
49924	49923	49922	30°	12-24	3	H3	1
49934	49933	49932	30°	12-28	3	H3	1
49944	49943	49942	30°	1/4-20	3	H3	1
49954	49953	49952	30°	1/4-28	3	H3	1
49964	49963	49962	30°	5/16-18	3	H3	1
49974	49973	49972	30°	5/16-24	3	H3	1
49984	49983	49982	30°	3/8-16	3	H3	1
49994	49993	49992	30°	3/8-24	3	H3	1
50004	50003	50002	30°	7/16-14	3	H3	1
50014	50013	50012	30°	7/16-20	3	H3	1
50024	50023	50022	30°	1/2-13	3	H3	1
50034	50033	50032	30°	1/2-20	3	H3	1
50044	50043	50042	30°	9/16-12	4	H3	1
50054	50053	50052	30°	9/16-18	4	H3	1
50064	50063	50062	30°	5/8-11	4	H3	1
50074	50073	50072	30°	5/8-18	4	H3	1
50084	50083	50082	30°	3/4-10	4	H3	1
50094	50093	50092	30°	3/4-16	4	H3	1

FRACTIONAL SPIRAL FLUTE SEMI-BOTTOMING TAPS - 52° SPIRAL

Type 37-ACN Titanium Carbon Nitride Part#	Type 37-AGN Titanium Nitride Part#	Type 37 Bright Part#	Spiral	Size	# of Flutes	H Limit	Qty. per/pack each
52854	52853	52852	52°	3-48	2	H2	1
52864	52863	52862	52°	3-56	2	H2	1
52874	52873	52872	52°	4-40	2	H2	1
52884	52883	52882	52°	4-48	2	H2	1
52894	52893	52892	52°	5-40	2	H2	1
52904	52903	52902	52°	5-44	2	H2	1
52914	52913	52912	52°	6-32	2	H3	1
52924	52923	52922	52°	6-40	2	H2	1
52934	52933	52932	52°	8-32	3	H3	1

Continued on next page

FRACTIONAL / METRIC SPIRAL FLUTE SEMI-BOTTOMING TAPS

Right Hand Hi-Helix Flutes Ground Thread - High Speed Steel **NEW**

- Semi-bottoming style can be used for plug or bottoming applications.
- Helical flutes provides a shear cutting facilitating evacuation of chips from the hole.

30° Helix Angle - *Used where chip disposal is a problem.*

• *Spiral flute design effectively draws chips out of the hole.*

• **Recommended** when tapping blind or through holes in a variety of materials.

52° Helix Angle - *Can be used for plug or bottoming applications.*

• *Allows for threading close to bottom or blind holes.*

• **Recommended** for tapping deep holes in copper, brass, aluminum and other soft ductile materials.

Type 37-ACN 52°, Metric Type 38-ACN 30°, Metric 39-ACN 52° - Titanium Carbon Nitride

Titanium Carbon Nitride - coating raises cutting surface hardness greatly increasing resistance to wear.

Type 37-AGN 52°, Metric 38-AGN 30°, Metric 39-AGN 52° - Titanium Nitride

Titanium Nitride - coating adds lubricity and hardness, enhancing chip flow, finish hole quality and drill life.

Type 37 52°, Metric Type 38 30°, Metric Type 39 52° - Bright Finish

Bright Finish - Recommended in aluminum, zinc, cooper, wood, refrigeration die casting, auto hardware and epoxy based plastics.

FRACTIONAL - SPIRAL FLUTE SEMI-BOTTOMING TAPS - 52° SPIRAL

Type 37-ACN Titanium Carbon Nitride Part #	Type 37-AGN Titanium Nitride Part #	Type 37 Bright Part #	Spiral	Size	# of Flutes	H Limit	Qty. per/pack each
52944	52943	52942	52°	8-36	3	H2	1
52954	52953	52952	52°	10-24	3	H3	1
52964	52963	52962	52°	10-32	3	H3	1
52974	52973	52972	52°	12-24	3	H3	1
52984	52983	52982	52°	12-28	3	H3	1
52994	52993	52992	52°	1/4-20	3	H3	1
53004	53003	53002	52°	1/4-28	3	H3	1
53014	53013	53012	52°	5/16-18	3	H3	1
53024	53023	53022	52°	5/16-24	3	H3	1
53034	53033	53032	52°	3/8-16	3	H3	1
53044	53043	53042	52°	3/8-24	3	H3	1
53054	53053	53052	52°	7/16-14	3	H3	1
53064	53063	53062	52°	7/16-20	3	H3	1
53074	53073	53072	52°	1/2-13	3	H3	1
53084	53083	53082	52°	1/2-20	3	H3	1
53094	53093	53092	52°	9/16-12	4	H3	1
53104	53103	53102	52°	9/16-18	4	H3	1
53114	53113	53112	52°	5/8-11	4	H3	1
53124	53123	53122	52°	5/8-18	4	H3	1
53134	53133	53132	52°	3/4-10	4	H3	1
53144	53143	53142	52°	3/4-16	4	H3	1

METRIC

SPIRAL FLUTE SEMI-BOTTOMING TAPS - 30° SPIRAL

Type 38-ACN Titanium Carbon Nitride Part #	Type 38-AGN Titanium Nitride Part #	Type 38 Bright Part #	Spiral	Size	# of Flutes	D Limit	Qty. per/pack each
69014	69013	69012	30°	3.00 x .50	2	D3	1
69024	69023	69022	30°	3.50 x .60	2	D4	1
69034	69033	69032	30°	4.00 x .70	3	D4	1
69044	69043	69042	30°	4.50 x .75	3	D4	1
69054	69053	69052	30°	5.00 x .80	3	D4	1
69064	69063	69062	30°	6.00 x 1.00	3	D5	1
69074	69073	69072	30°	8.00 x 1.25	3	D5	1
69084	69083	69082	30°	10.00 x 1.50	3	D6	1
69094	69093	69092	30°	12.00 x 1.75	3	D6	1

METRIC

SPIRAL FLUTE SEMI-BOTTOMING TAPS - 52° SPIRAL

Type 39-ACN Titanium Carbon Nitride Part #	Type 39-AGN Titanium Nitride Part #	Type 39 Bright Part #	Spiral	Size	# of Flutes	D Limit	Qty. per/pack each
69314	69313	69312	52°	3.00 x .50	2	D3	1
69324	69323	69322	52°	3.50 x .60	2	D4	1
69334	69333	69332	52°	4.00 x .70	3	D4	1
69344	69343	69342	52°	4.50 x .75	3	D4	1
69354	69353	69352	52°	5.00 x .80	3	D4	1
69364	69363	69362	52°	6.00 x 1.00	3	D5	1
69374	69373	69372	52°	8.00 x 1.25	3	D5	1
69384	69383	69382	52°	10.00 x 1.50	3	D6	1
69394	69393	69392	52°	12.00 x 1.75	3	D6	1

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